AMENDMENTS TO THE SPECIFICATION

Page 4, lines 17-23 - Description of the Invention:

The present invention is based on the insight that commensal *Actinomyces* and *Streptococcus* species transform acidic PRPs to small-size peptides, such as pentapeptides. These small-size peptides are transformed into ammonia by the action of certain oral bacteria. The ammonia thus formed protects raises the pH at the dental surface and therby thereby protects the surface against caries.

Page 7, lines 23-27:

Also preferred is a penta- to decapeptide comprised by the sequence of amino acid 99 to amino acid 115 of the 150 residue PRP-1 protein:

GlyGlyHisProArgProProArgGlyArgProGlnGlyProProGlnGln, <u>SEQ ID No. 13</u>, with the <u>proviso</u> provisio that it contains two or more Arg.

Page 7, line 29 through page 8, line 8:

Also preferred are the following peptides:

ArgGlyArgProGln (residues 106-110) SEQ ID No. 1;

ArgGlyArgProGlnGly (residues 106-111) SEQ ID No. 2;

ArgGlyArgProGlnGlyPro (residues 106-112) SEQ ID No. 3;

ArgGlyArgProGlnGlyProPro (residues 106-113) SEQ ID No. 4;

ArgGlyArgProGlnGlyProProGln (residues 106-114) SEQ ID No. 5;

ArgGlyArgProGlnGlyProProGlnGln (residues 106-115) SEQ ID No. 6;

GlyGlyHisProArgProProArgGlyArg (residues 99-108) SEQ ID No. 7;

GlyHisProArgProProArgGlyArg (residues 100-108) SEQ ID No. 8;

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HisProArgProProArgGlyArg (residues 101-108) <u>SEQ ID No. 9</u>; ProArgProProArgGlyArg (residues 102-108) <u>SEQ ID No. 10</u>; ArgProProArgGlyArg (residues 103-108) <u>SEQ ID No. 11</u>; ProProArgGlyArg (residues 104-108) <u>SEQ ID No. 12</u>.

Insert on page 8, the following paragraph between lines 9 and 10: Common to SEQ ID Nos. 1-13 is the sequence ProArgGlyArg.

Page 8, lines 22-26:

Also preferred for use in the method of preventing dental caries is a penta- to decapeptide comprised by the sequence of amino acid 99 to amino acid 115 of the 150 residue PRP-1 protein:GlyGlyHisProArgProProArgGlyArgProGlnGlyProProGlnGln, SEQ ID No. 13,

with the privisio proviso that it contains two or more Arg.

Page 8, line 28 through page 9, line 9:

Also preferred for use of preventing dental caries are the following peptides:

ArgGlyArgProGln (residues 106-110) SEQ ID No. 1;

ArgGlyArgProGlnGly (residues 106-111) SEQ ID No. 2;

ArgGlyArgProGlnGlyPro (residues 106-112) SEQ ID No. 3;

ArgGlyArgProGlnGlyProPro (residues 106-113) SEQ ID No. 4;

ArgGlyArgProGlnGlyProProGln (residues 106-114) SEQ ID No. 5;

ArgGlyArgProGlnGlyProProGlnGln (residues 106-115) SEQ ID No. 6;

GlyGlyHisProArgProProArgGlyArg (residues 99-108) SEQ ID No. 7;

GlyHisProArgProProArgGlyArg (residues 100-108) SEQ ID No. 8;

Application No.: 10/009,709 Docket No.: C2432.0044

HisProArgProProArgGlyArg (residues 101-108) <u>SEQ ID No. 9;</u>
ProArgProProArgGlyArg (residues 102-108) <u>SEQ ID No. 10;</u>
ArgProProArgGlyArg (residues 103-108) <u>SEQ ID No. 11;</u>
ProProArgGlyArg (residues 104-108) <u>SEQ ID No. 12</u>.

Page 9, lines 10 - 18:

According to the invention is disclosed a composition for preventing dental caries comprising a prevention-effective amount of an oligopeptide comprising two arginine residues selected from the group consisting of pentapeptide, hexapeptide, heptapeptide, octapeptide, nonapeptide and decapeptide, and a suitable carrier. Particularly preferred is the pentapeptide ArgGlyArgProGln, SEQ ID No. 1. Suitable carriers include state-of-the-art toothpaste and mouthwash compositions but also chewing-gums, lozenges, and the like.

Page 9, lines 20 - 25:

Also preferred for use in the composition for preventing dental caries is a penta- to decapeptide comprised by the sequence of amino acid 99 to amino acid 115 of the 150 residue PRP-1 protein: GlyGlyHisProArgProProArgGlyArgProGlnGlyProProGlnGln, SEQ ID No. 13, with the provisio proviso that it contains two or more Arg.

Page 9, line 27 through page 10, line 6:

Also preferred for use in the composition for preventing dental caries are the following peptides:

ArgGlyArgProGln (residues 106-110) SEQ ID No. 1;

ArgGlyArgProGlnGly (residues 106-111) SEQ ID No. 2;

ArgGlyArgProGlnGlyPro (residues 106-112) SEQ ID No. 3;

ArgGlyArgProGlnGlyProPro (residues 106-113) <u>SEQ ID No. 4;</u>
ArgGlyArgProGlnGlyProProGln (residues 106-114) <u>SEQ ID No. 5;</u>
ArgGlyArgProGlnGlyProProGlnGln (residues 106-115) <u>SEQ ID No. 6;</u>
GlyGlyHisProArgProProArgGlyArg (residues 99-108) <u>SEQ ID No. 7;</u>
GlyHisProArgProProArgGlyArg (residues 100-108) <u>SEQ ID No. 8;</u>
HisProArgProProArgGlyArg (residues 101-108) <u>SEQ ID No. 9;</u>
ProArgProProArgGlyArg (residues 102-108) <u>SEQ ID No. 10;</u>
ArgProProArgGlyArg (residues 103-108) <u>SEQ ID No. 11;</u>
ProProArgGlyArg (residues 104-108) <u>SEQ ID No. 11;</u>

Page 18, line 29 through page 19, line 3:.

EXAMPLE 15. Lozenge. A solution of ArgGlyArgProGln (SEQ ID No. 1) 'acetate' was prepared by dissolving ArgGlyArgProGln in water and adding acetic acid to pH 6.5. The aqueous solution was freeze-dried and the powder thereby obtained mixed with 150 g of polyyethylene polyethylene glycol 8000, 150 g of microcrystalline cellulose, 600 g of mannitol, 10 g of stearic acid are milled to pass a 40 mesh sieve. The mixture is fed to a tablet press to produce 1 g tablets.

Page 19, lines 5 - 15:

EXAMPLE 16. Chewable tablet. 900 g mannitol and 5 g sodium saccharin are screened through a 40-mesh screen and blended thoroughly with 40 g ArgGlyArgProGln acetate (SEQ ID No. 1 acetate) prepared as described above. A binder solution of 20 g of acacia and 50 g of gelatin in 500 ml water was prepared separately. The powder was wet granulated using 200 ml of binder solution for 1000 powder. After drying overnight at 75°C the granules were screened through a 12 mesh screen, mixed with 1 g of peppermint oil adsorbed on 3 g of colloidal silica and 25 g magnesium stearate. From this mixture 1 g tablets were compressed to a hardness of 12 kg.